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RP  
5-20-03  
PATENT

Attorney Docket No. 3101.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MITTMANN, et. al.

Examiner: S. Zhou

Serial No: 09/396,196

Group Art Unit: 1631

Filing Date: 09/15/99

Title: **METHODS OF GENETIC  
ANALYSIS**

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Washington, D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 CFR § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying U.S. Patent & Trademark Office's Modified Form-1449 are called to the attention of the Examiner for the above patent application.

In an effort to make the review of these references more convenient for the Examiner, Applicants are providing the Examiner and the PTO with a compact disc (CD) with the references available for electronic viewing. The CD contains the articles and information in .pdf format and can be viewed by opening the appropriate file or by selecting the link (CTRL + click) on the 1449 form included on the CD in word format. This IDS is being submitted in each of the applications listed in Table 1 and hard copies of the references cited in the IDS have been provided to Supervisory Primary Examiner Gary Jones as an "Affymetrix Array IDS binder" for the availability of all references. Each of the applications discloses the probes present on one of the commercial arrays available from Affymetrix.

05/28/2003 WPHILLIP 00000001 010431 09396196  
05/28/2003 WPHILLIP 00000001 010431 09396196

81-56-1006 100-00-51

Table 1 summarizes the approximate dates when each of the Affymetrix commercial arrays were first offered for sale. Application serial numbers, Affymetrix docket numbers and priority dates are also included.

Table 1.

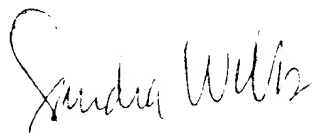
Array	Approximate Release Date	Application USSN (Affy. Ref.)	Priority Date
GeneChip HIV PRT 440	April 1996 (see p.8 of S-3 filed 10/17/1997)		
GeneChip p53	July 1997 (see p.8 of S-3 filed 10/17/1997)		
GeneChip CYP450	November 1997		
Hu6800 Set/HuGene FL	January 1998	09/660,222 (3102.1)	11/11/99
Mu6500	January 1998	09/396,196 (3101.1)	9/17/98
Ye6100	January 1998		
Test 1	January 1998		
Hu35K	November 1998		
Hu6800	November 1998		
Mu19K	November 1998		
Mu11K	November 1998		
GeneChip HIV PRT Plus	February 1999		
Rat Genome U34	August 1999	09/954,427 (3112.1)	9/18/00
Rat Toxicology U34	August 1999	09/660,080 (3109.1)	10/28/99
Test 2	August 1999	09/660,247 (3107.1)	10/28/99
HuSNP	August 1999		
Yeast Genome S98	February 2000	09/953,570 (3110.1)	9/14/00
E.coli Genome	February 2000	09/956,604 (3117.1)	9/19/00
Human Cancer G110	February, 2000	09/953,115 (3111.1)	9/14/00
Rat Neurobiology U34	February, 2000	09/954,429 (3114.1)	9/18/00
Human Genome U95	April 18, 2000	10/098,263 (3118.1)	3/16/01
Murine Genome U74	June 27, 2000	09/956,584 (3115.1)	9/20/00
Arabidopsis Genome	June 27, 2000	09/954,445 (3116.1)	9/18/00
GenFlex Tag	July 31, 2000	09/827,383 (3108.1)	4/6/00
Drosophila Genome	January 2001		
Test 3	May 2001	10/215,112 (3119.1)	8/8/01
E. coli Antisense Genome	November 2001		
P. aeruginosa Genome	November 2001		
Human Genome U133	January 2002	60/353,987 (3121)	2/1/02
C. elegans Genome	April 2002		

Citation of these documents shall not be construed as (1) an admission that the document are necessarily prior art with respect to the instant invention; (2) a representation that a search has been

made, other than as described above; or (3) an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

Commissioner is hereby authorized to deduct the \$180.00 fee for the submission of this Information Disclosure Statement from the undersigned's Deposit Account No. 01-0431. Please deduct any additional fees from, or credit any overpayment to the above-noted Deposit Account.

Respectfully submitted,



Sandra Wells

Reg. No.: 52,349

Date: Jun. 22, 2003

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	09/396,196
Filing Date	09/15/99
First Named Inventor	Mittmann, et. al.
Group Art Unit	1631
Examiner Name	S. Zhou
Attorney Docket Number	3101.1

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	LIPSHUTZ RJ: Letter from Dr. Lipshutz to Dr. Carrano, August 22, 1994. <a href="#">Link</a>	
	2	AFFYMETRIX: GeneChip® Assays and Controls Price List, November, 1997. <a href="#">Link</a>	
	3	AFFYMETRIX: GeneChip® Arrays and Assays Product List, January, 1998. <a href="#">Link</a>	
	4	AFFYMETRIX: GeneChip® Arrays and Assays Product List, November, 1998. <a href="#">Link</a>	
	5	AFFYMETRIX: GeneChip® Arrays and Reagents, February, 1999. <a href="#">Link</a>	
	6	AFFYMETRIX: GeneChip® Price Catalog (U.S. and Canada), July, 1999. <a href="#">Link</a>	
	7	AFFYMETRIX: Addendum (U.S. and Canada) GeneChip® Arrays and Reagents, August, 1999. <a href="#">Link</a>	
	8	AFFYMETRIX: GeneChip® Price Catalog (U.S. and Canada), January, 2000. <a href="#">Link</a>	
	9	AFFYMETRIX: Affymetrix® Catalog Addendum GeneChip® Arrays and Reagents (U.S. and Canada), February, 2000. <a href="#">Link</a>	
	10	AFFYMETRIX: Affymetrix® Product Catalog (Global), August, 2000. <a href="#">Link</a>	
	11	AFFYMETRIX: Affymetrix® Product Catalog (Global), January, 2001. <a href="#">Link</a>	

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	12	AFFYMETRIX: Affymetrix® Product Catalog (Global), January, 2002. <a href="#">Link</a>	
	13	AFFYMETRIX: Affymetrix® Product Catalog (Global), July, 2002. <a href="#">Link</a>	
	14	AFFYMETRIX: Product Information GeneChip® HuSNP Mapping Assay, 1999. <a href="#">Link</a>	
	15	AFFYMETRIX: Product Information GeneChip® GenFlex™ Tag Array, 2000. <a href="#">Link</a>	
	16	AFFYMETRIX: Product Information GeneChip® Yeast Genome S98 Array, 2000. <a href="#">Link</a>	
	17	AFFYMETRIX: Product Information GeneChip® HIV PRT Assay, 1997. <a href="#">Link</a>	
	18	AFFYMETRIX: Product Information GeneChip® HIV PRT Plus, 1998. <a href="#">Link</a>	
	19	AFFYMETRIX: Product Information GeneChip® p53 Assay, 1997. <a href="#">Link</a>	
	20	AFFYMETRIX: Product Information GeneChip® p53 Probe Array and Reagents, 1998. <a href="#">Link</a>	
	21	AFFYMETRIX: Product Information GeneChip® CYP450 Assay, 1997. <a href="#">Link</a>	
	22	AFFYMETRIX: Product Information GeneChip® CYP450 Probe Array and Reagents, 1998. <a href="#">Link</a>	

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	24	AFFYMETRIX: Product Information Human Genome U95 Set, 2000. <a href="#">Link</a>	
	25	AFFYMETRIX: Product Information GeneChip® Human Genome U133 Set, 2001. <a href="#">Link</a>	
	26	AFFYMETRIX: Product Information GeneChip® Human Genome Focus Array, 2002. <a href="#">Link</a>	
	27	AFFYMETRIX: Product Information GeneChip® Human Cancer G110 Array, 1999. <a href="#">Link</a>	
	28	AFFYMETRIX: Product Information Rat Neurobiology U34 Array, 2000. <a href="#">Link</a>	
	29	AFFYMETRIX: Product Information GeneChip® Rat Genome U34 Array Set, 1999. <a href="#">Link</a>	
	30	AFFYMETRIX: Product Information GeneChip® Test1, 1998. <a href="#">Link</a>	
	31	AFFYMETRIX: Product Information GeneChip® Test2 Array, 1999. <a href="#">Link</a>	
	32	AFFYMETRIX: Product Information GeneChip® Test3 Array, 2001. <a href="#">Link</a>	
	33	AFFYMETRIX: Product Information GeneChip® Yeast Genome S98 Array, 1999. <a href="#">Link</a>	

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	34	AFFYMETRIX: Product Information GeneChip® Mu6500 Set, 1998. <a href="#">Link</a>	
	35	AFFYMETRIX: Product Information GeneChip® Murine Genome U74 Set, 2001. <a href="#">Link</a>	
	36	AFFYMETRIX: Product Information GeneChip® Murine 11k Set, 1998. <a href="#">Link</a>	
	37	AFFYMETRIX: Product Information GeneChip® Murine 11k Set, 2001. <a href="#">Link</a>	
	38	AFFYMETRIX: Product Information GeneChip® Murine 19k Set, 1998. <a href="#">Link</a>	
	39	AFFYMETRIX: Product Information Arabidopsis Genome Array, 2000. <a href="#">Link</a>	
	40	AFFYMETRIX: Product Information GeneChip® Arabidopsis ATH1 Genome Array, 2002. <a href="#">Link</a>	
	41	AFFYMETRIX: Product Information E. coli Genome Array, 2000. <a href="#">Link</a>	
	42	AFFYMETRIX: Product Information GeneChip® E. coli Antisense Genome Array, 2001. <a href="#">Link</a>	
	43	AFFYMETRIX: Product Information GeneChip® P. aeruginosa Genome Array, 2001. <a href="#">Link</a>	
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	45	AFFYMETRIX: Product Information Drosophila Genome Array, 2000. <a href="#">Link</a>	
	46	AFFYMETRIX: Product Information GeneChip® B. subtilis Genome Array, 2002. <a href="#">Link</a>	
	47	AFFYMETRIX: Product Information GeneChip® C. elegans Genome Array, 2002. <a href="#">Link</a>	
	48	AFFYMETRIX: Product information GeneChip® Custom Arrays, 1998. <a href="#">Link</a>	
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	54	KOZAL MJ, ET AL, "Extensive polymorphisms observed in HIV-1 clade B protease gene using high-density oligonucleotide arrays", Nature Medicine, 1996, 2, 7, 753-9. <a href="#">Link</a>	
	55	LOCKHART DJ, ET AL, "Expression monitoring by hybridization to high-density oligonucleotide arrays", Nature Biotechnology, 1996, 14, 13, 1675-80. <a href="#">Link</a>	

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	56	SHOEMAKER DD, ET AL, "Quantitative phenotypic analysis of yeast deletion mutants using a highly parallel molecular bar-coding strategy", Nature Genetics, 1996, 14, 4, 450-6. <a href="#">Link</a>	
	57	WODICKA L, ET AL, "Genome-wide expression monitoring in Saccharomyces cerevisiae", Nature Biotechnology, 1997, 15, 13, 1359-67. <a href="#">Link</a>	
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	64	TRAVERS KJ, ET AL, "Functional and genomic analyses reveal an essential coordination between the unfolded protein response and ER-associated degradation", Cell, 2000, 101, 3, 249-58. <a href="#">Link</a>	
	65	HAKAK Y, ET AL, "Genome-wide expression analysis reveals dysregulation of myelination-related genes in chronic schizophrenia", Proceedings of the National Academy of Sciences, USA, 2001, 98, 8, 4746-51. <a href="#">Link</a>	
	66	LU SC, ET AL, "Methionine adenosyltransferase 1A knockout mice are predisposed to liver injury and exhibit increased expression of genes involved in proliferation", Proceedings of the National Academy of Sciences, USA, 2001, 98, 10, 5560-5. <a href="#">Link</a>	

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	67	MACDONALD TJ, ET AL, "Expression profiling of medulloblastoma: PDGFRA and the RAS/MAPK pathway as therapeutic targets for metastatic disease", Nature Genetics, 2001, 29, 2, 143-52. <a href="#">Link</a>	
	68	NICULESCU AB, 3RD, ET AL, "The human genome: genetic testing and animal models", American Journal of Psychiatry, 2001, 158, 10, 1587. <a href="#">Link</a>	
	69	STAMEY TA, ET AL, "Molecular genetic profiling of Gleason grade 4/5 prostate cancers compared to benign prostatic hyperplasia", Journal of Urology, 2001, 166, 6, 2171-7. <a href="#">Link</a>	
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	72	CHO RJ, ET AL, "Parallel analysis of genetic selections using whole genome oligonucleotide arrays", Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 7, 3752-7. <a href="#">Link</a>	
	73	BAKAY, ET AL, "Sources of variability and effect of experimental approach on expression profiling data interpretation", 2002, 3, 4. <a href="#">Link</a>	
	74	CARMEL, ET AL, "Gene expression profiling of acute spinal cord injury reveals spreading inflammatory signals and neuron loss", Physiol Genomics 2001, 7:201-213. <a href="#">Link</a>	
	75	AFFYMETRIX, INC. Securities and Exchange Commission Filing S-3 filed on October 17, 1997, also available at <a href="http://www.sec.gov/Archives/edgar/data/913077/0001047469-97-001100.txt">http://www.sec.gov/Archives/edgar/data/913077/0001047469-97-001100.txt</a> . <a href="#">Link</a>	

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	76	US-5,143,854	09-01-1992	Pirrung et al. <a href="#">Link</a>	
	77	US- 5,800,992	06-25-1996	Fodor et al. <a href="#">Link</a>	

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